DOUBLE CHAIN CONVEYOR

FOR BIG ROUND BALES

USER'S MANUAL AND

PARTS LIST

13C50-0077

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FOREWORD

This manual describes the installation, operation and maintenance of the 60" double chain conveyor from VALMETAL. Be sure to read it carefully before operating the machine or providing maintenance for it in order to obtain a thorough knowledge of efficient and safe procedures.

IDENTIFICATION

A name plate riveted to the side of the drive unit bears specification and serial numbers of the unit. Refer to these numbers when ordering parts.

Serial number : _____
Model number : _____

WARRANTY

This piece of equipment is covered by warranty described on next page. Your dealer will explain the warranty agreement and will complete the delivery and warranty registration form.

NOTE: The warranty is valid only if both dealer and customer or their representatives have completed and signed the warranty registration form, and that the completed form is received by VALMETAL within 15 days from the date of installation.

SAFETY ALERT SYMBOL

Pay special attention to this safety alert symbol, it indicates an important safety message. For your protection, we urge you to read all safety messages found in the manual and on safety signs adhered to the machine.

LIMITED WARRANTY

BASIC WARRANTY AND REMEDIES

ALL VALMETAL products are warranted against defects in workmanship and materials for one year from date of delivery to the first purchaser. The warranty repair period for equipment used for commercial or rental purposes is limited to 90 days from date of delivery to the first retail purchaser.

VALMETAL will repair or replace, free of charge, at its option, F.O.B factory, freight prepaid, any parts proved defective in workmanship or materials. It is agreed that such replacement or repair is the exclusive remedy available from Valmetal, should any of Valmetal's products or parts prove defective. Valmetal will not be responsible for freight and labour charges involved for removing and replacing defective parts.

EXCEPTIONS FROM THIS WARRANTY

This warranty covers equipment under normal use and service, does not cover conditions resulting from misuse, negligence, alteration, accident or lack of performance of required maintenance. Replacement of maintenance items such as belts, chains, wear bars, etc… are not covered.

EXCEPTIONS FROM THE WARRANTY

Motors are warranted directly by the motor manufacturer only and not by Valmetal.

LIMITATION OF LIABILITY

This warranty is in lieu of all other warranties, express or implied, written or oral. No employee, agent, dealer or any other person is authorized to give any warranties on behalf of Valmetal, nor to assume for Valmetal any other liability in connection with any of its products. IN NO EVENT SHALL THE OWNER BE ENTITLED TO RECOVER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES SUCH AS, BUT NOT LIMITED TO, LOSS OF CROPS, LOSS OF PROFITS OR REVENUE, OTHER COMMERCIAL LOSSES, INCONVENIENCE OR COST OF RENTAL OR REPLACEMENT EQUIPMENT.

SAFETY PRECAUTIONS

- Keep **ALL** guards in place.
- **DO NOT** attempt to clean, oil or adjust machine while in operation. Disconnect and lock out power source before servicing.
- Keep hands, feet and clothing **AWAY** from power driven parts.
- **BE SURE** main switch is off before resetting motor thermals.

OPERATE EQUIPMENT SAFELY

Do not allow anyone to operate, make adjustment or lubricate before reading and understanding this manual.

Controls should be located so the complete machine can be observed during operation.

Do not allow children or unauthorized personnel to operate the conveyor.

Never allow anyone near conveyor while operating.

Be sure area is clear before operating conveyor.

Should any damage to equipment occur, shut off and lock out power immediately, make necessary inspection and repairs before restarting and operating.

After using equipment, shut off and lock out power.

Never leave a machine running unattended.

Failure to heed warnings may result in personal injury or death.

PRACTICE SAFE MAINTENANCE

Disconnect and lock out power before adjusting or servicing.

Make certain the motor and all other moving parts have stopped before making adjustments or leaving equipment.

Keep all hardware tight and properly adjusted.

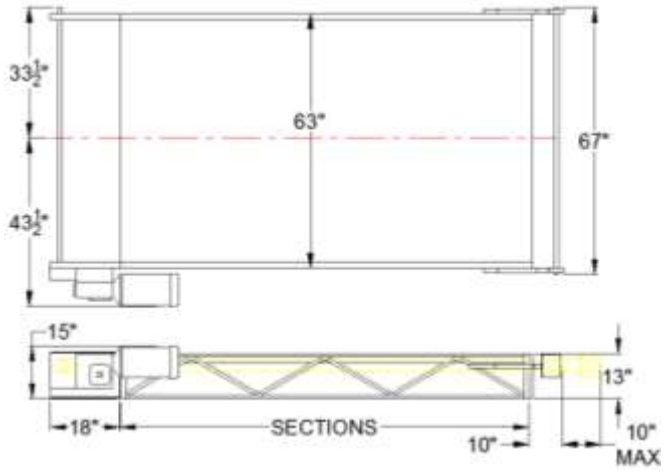
Do not allow anyone to make adjustment or lubricate before reading and understanding this manual.

Keep all safety signs clean and readable.

Failure to heed warnings may result in personal injury or death.

ASSEMBLY INSTRUCTIONS

General dimensions



MAXIMUM pulling capacity

Model 52-0080-143 = 2400lb
(1090 kg)
Model 52-0080-184 = 3500lb
(1590kg)
Model 52-0100 = 6000lb
(2725kg)

Note: Must be supported every 5 feet.

Before you start to assemble the conveyor, have a look at figure above, this will give you a general idea of the installation.

Assemble together the drive assembly and conveyor sections with hex. bolts 1/2" x 1 1/2" , lock washers and nuts.

Note: Conveyor must be supported at both ends and every 5 feet

Bolt the idler brackets to the end of the conveyor section frame with 1/2" x 1 1/2" hex. bolts, lock washers ant nuts.

Assemble idler bearing assemblies with idler shaft and rollers and slide. Threaded rods into the idler brackets square tube.

Install conveyor chains and fix the paddles with 1/2" x 1 3/4" carriage bolts, lock washers and nuts.

Note: Make sure at this moment that the idler shaft assembly is all the way in for future chain tightening

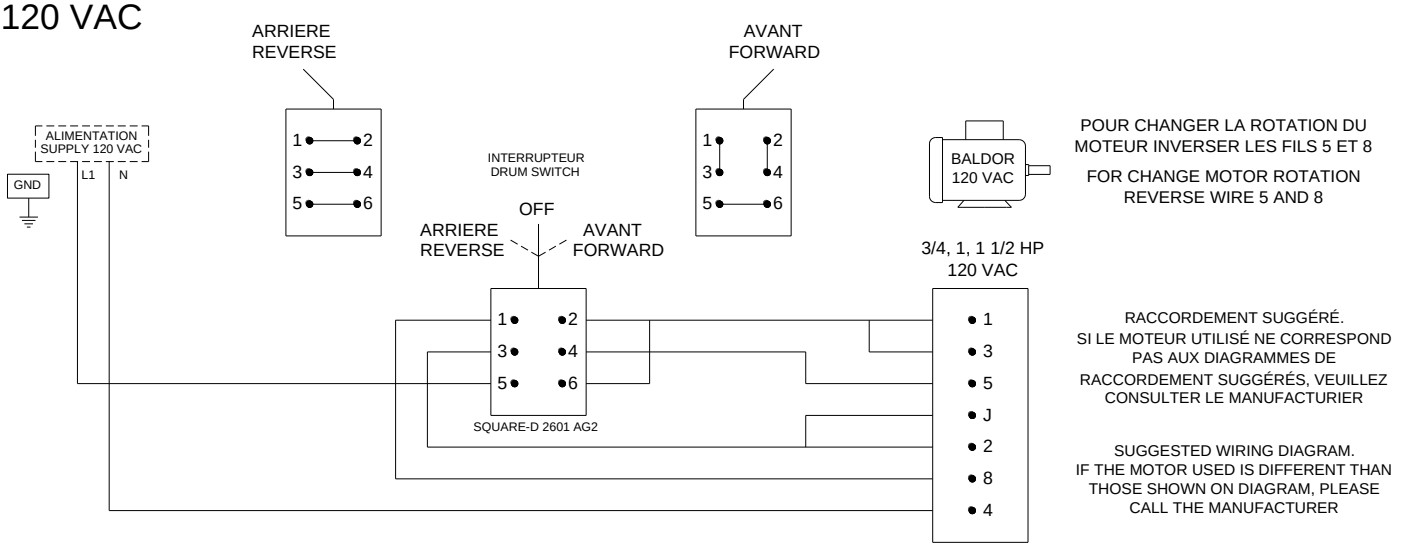
ATTENTION ELECTRICAL CONNECTION OF MOTOR
All electrical work should be carried out by a qualified electrician in order to prevent accidents or damage and in accordance with local regulations.

ATTENTION: Don't take chances, make sure everyone is clear of machine before running.

REVERSING DRUM SWITCH WIRING DIAGRAM #15-1437(AG-2)
1 ½ HP, 115 V, 1 PH OU 2 PH, 230 V, 1PH

WARNING: All electrical work should be carried out by a qualified electrician in order to prevent accidents or damage.

120 VAC



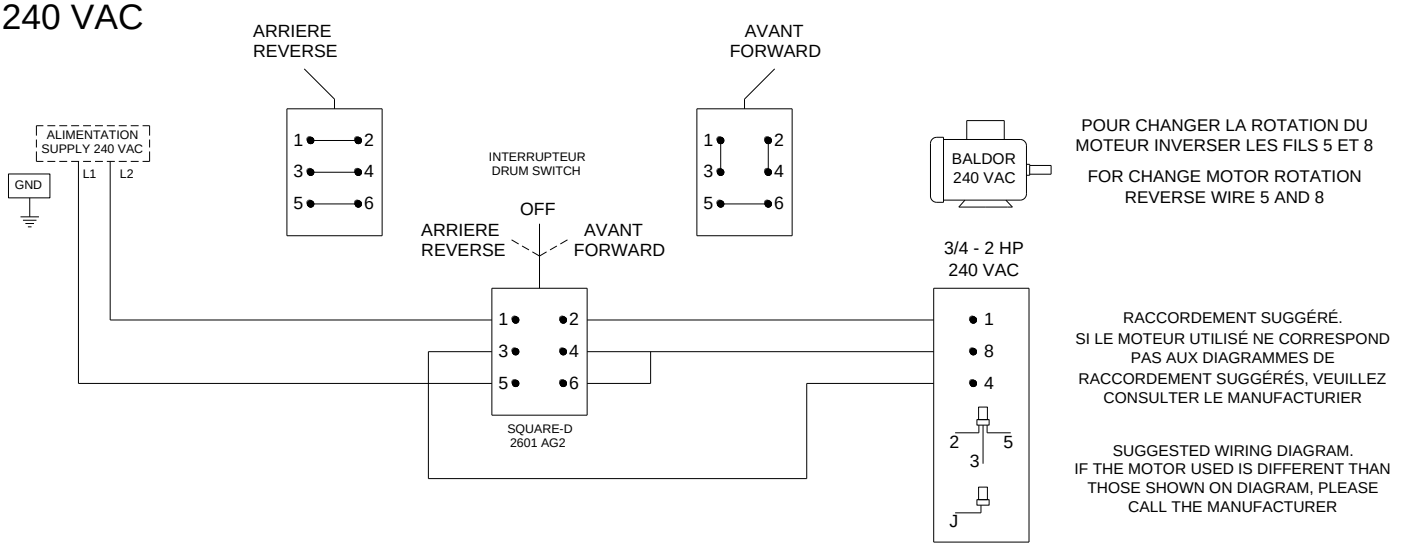
POUR CHANGER LA ROTATION DU MOTEUR INVERSER LES FILS 5 ET 8

FOR CHANGE MOTOR ROTATION REVERSE WIRE 5 AND 8

RACCORDEMENT SUGGÉRÉ.
SI LE MOTEUR UTILISÉ NE CORRESPOND PAS AUX DIAGRAMMES DE RACCORDEMENT SUGGÉRÉS, VEUILLEZ CONSULTER LE MANUFACTURIER

SUGGESTED WIRING DIAGRAM.
IF THE MOTOR USED IS DIFFERENT THAN THOSE SHOWN ON DIAGRAM, PLEASE CALL THE MANUFACTURER

240 VAC



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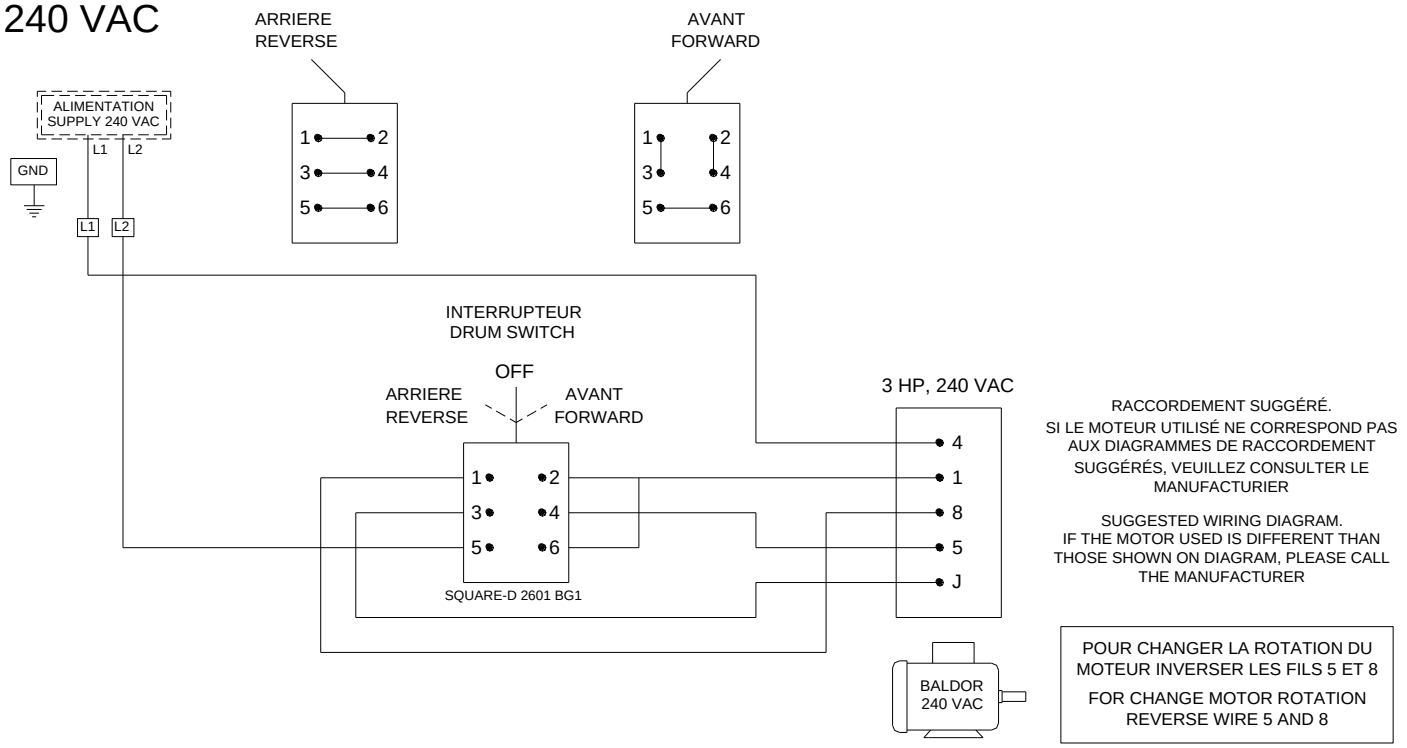
SUGGESTED WIRING DIAGRAM.
IF THE MOTOR USED IS DIFFERENT THAN THOSE SHOWN ON DIAGRAM, PLEASE CALL THE MANUFACTURER

REVERSING DRUM SWITCH WIRING DIAGRAM #15-1438(BG-1)
MAX. 3 HP, 230 V, 1 PH

WARNING: All electrical work should be carried out by a qualified electrician in order to prevent accidents or damage.



ADJUSTING CHAIN

FOR SINGLE DIRECTION CONVEYOR

1. Tighten chain at idler end of conveyor. Chain should be adjusted so chain can be raised 6" to 8" at center of 20' span

FOR REVERSING CONVEYOR

2. Tighten chain at idler end of conveyor. Chain should be adjusted so chain can be raised 3" to 4" at center of 20' span.

3. Make sure that the adjusting bolts at the idler end are tightened equally.

4. Start the motor and verify that the chain fits well in the sprocket teeth.

5. If an adjustment is necessary **TURN OFF THE MOTOR** and lock out power source, then do the required adjustments. Verify the adjusting bolts on the idler end.

6. Tighten all bolts.

NOTE: When tightening the chain allow it to run at least a full chain revolution to determine if additional adjustments are required. Check tension while machine is loaded. Check frequently during the first 10 hours of operation. Check periodically afterwards.

STARTING-UP

CAUTION: Don't take chances; make sure everyone is clear of machine before running.

It takes many hours of running, under full load, for the chain and gear box to reach their highest efficiency. They may, if necessary, be put to work under full load immediately. However, to maximize the lifetime of the machine, it is recommended to run it under gradually increasing loads and to reach a full load only after about 20 hours.

MAINTENANCE

CAUTION: Make sure the power is off before inspection.

To maintain free ventilation of the gear box, the breather hole in the filler plug (air-vent) should be kept clear at all times.

Regularly inspect bolts and screws for tightness because loose fasteners can cause misalignment and excessive wear.

MONTHLY LUBRICATION

Check oil in gear box.

Grease all bearings.

Oil drive chain. Use light weight oil.

CHANGING LUBRICANT

After 100 hours of running, a new worm gear unit should be drained, flushed and refilled with proper oil.

Oil should be changed at least every 2500 operating hours or every 6 months, whichever occurs first.

Never mix 2 different types of oil. Be sure to drain and wash before using another type of oil.

SELECTION OF LUBRICANT

Lubricating oil must have a viscosity sufficient to reduce friction and allow the speed reducer to operate smoothly under high load and impact. Consult table below for the choice of lubricant.

Where a wide temperature range is expected, the synthetic oil EXXON SHC 629 is recommended.

Please keep in touch with our engineering department, especially when operating reducers under special conditions such as high or low speed, high temperature or heavy loads.

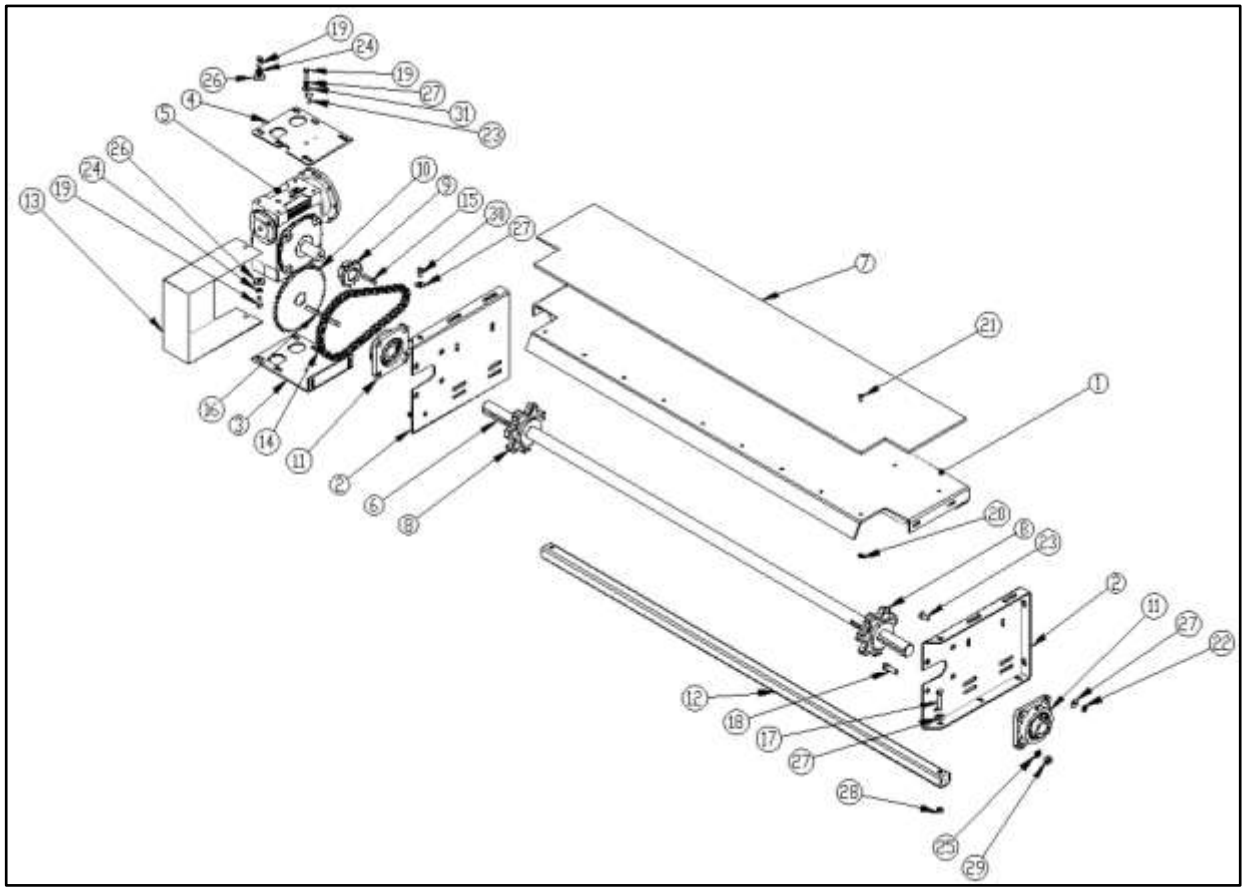
Room temperature (C)	Room temperature (C)	**GRADE**	**TEXACO**	**SHELL**	**EXXON**
-30 à 0	under 70	80W90	Mepora 150	Omala 150	Spartan EP 150 SHC 629
	70 to 100	80W110	Mepora 320	Omala 320	Spartan 320 SHC 629
0 à 25	under 70	80W110	Mepora 320	Omala 320	Spartan320 SHC 629
	70 to 100	80W110	Mepora 320	Omala 320	Spartan320 SHC 629
Over 25	under 70	80W140	Mepora 460	Omala 460	Spartan460 SHC 629
	70 to 100	80W140	Mepora 460	Omala 460	Spartan460 SHC 629

VAL METAL

DOUBLE CHAIN CONVEYOR

FOR BIG ROUND BALES

PARTS LIST

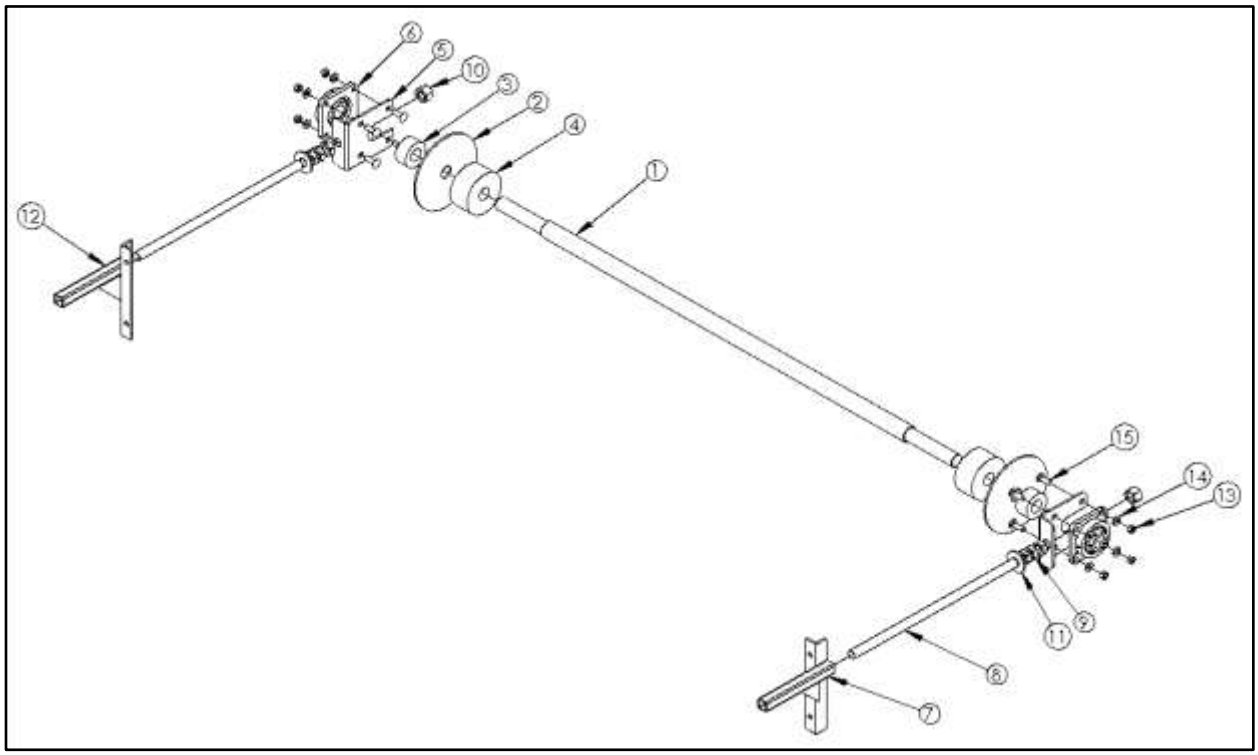


DR.1

DRIVE UNIT

ITEM	PART NO.	DESCRIPTION
1	52-001	Pan
2	35-102	Conveyor head side
3	35-105-80	Gear box bottom support (series 80)
	35-105-100	Gear box bottom support (series 100)
4	35-106-80	Gear box top support (series 80)
	35-106-100	Gear box top support (series 100)
5	45-CC80-40L-143	Reducer for 2Hp motor –shaft Ø7/8
	45-CC80-40L-184	Reducer for 3Hp motor –shaft Ø1 1/8
	45-CC100-40L-184	Reducer for 5Hp motor –shaft Ø1 1/8
6	52-016	Drive shaft only
7	52-002	Wear plate
8	60-88C07-1.5	Sprocket
9	60-80B10-1.375	Sprocket (series 80)
	60-80B10-1.500	Sprocket (series 100)
10	60-80B24-1.500	Sprocket
11	40-UCF208-24	Bearing
12	52-003	Brace
13	35-111	Guard (series 100)
	35-112	Guard (series 80)
14	60-80-32	Chain #80 c/w + ½ link & conn link

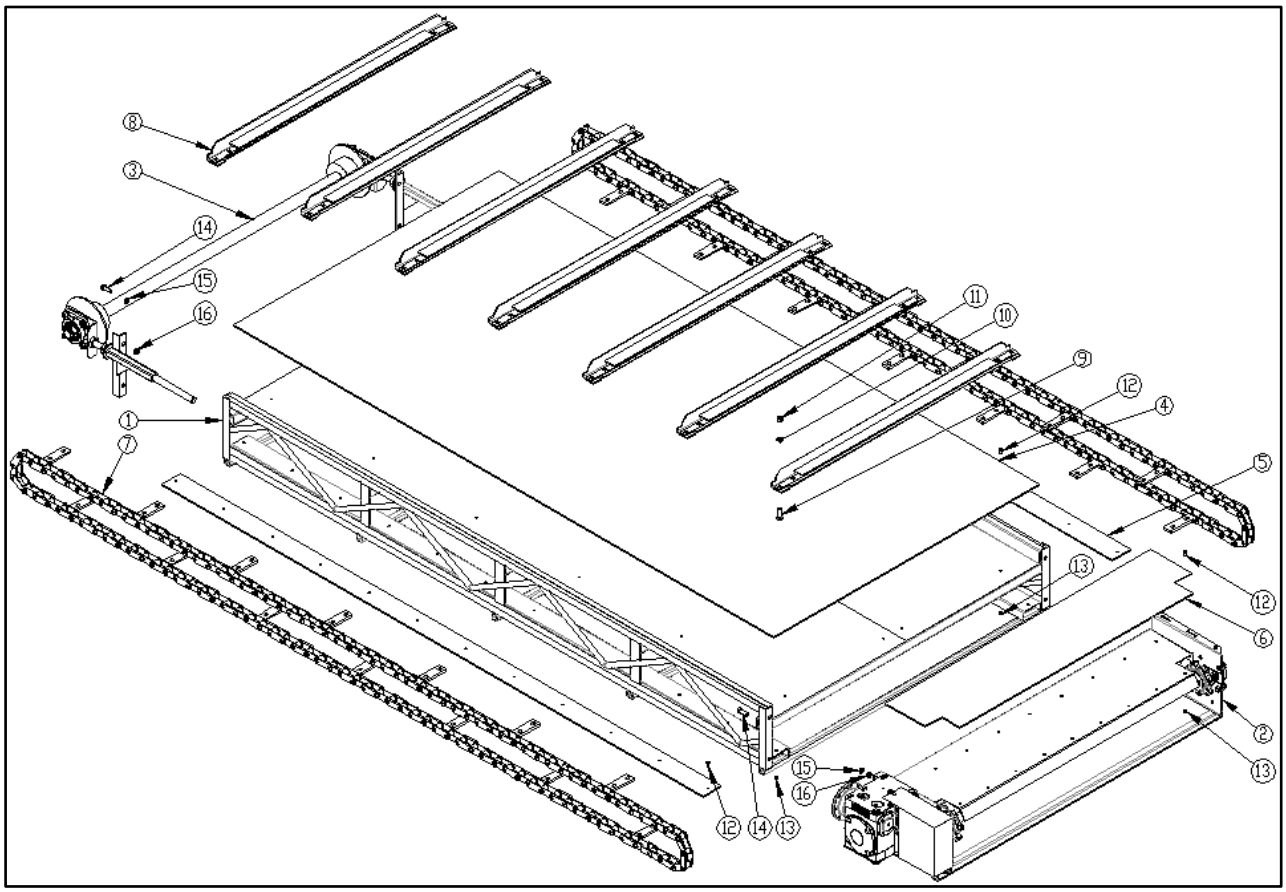
ITEM	PART NO.	DESCRIPTION
15	99-372-2	Key 5/16 x 2'' (series 80)
	06A41-0805	Key 3/8 x 2'' (series 100)
16	06A41-0805	Key 3/8 2'' (series 100)
17	01C17-0119	Hex. bolt 3/8 x 2 1/4
18	01C17-0249	Hex. bolt 1/2 x 1 1/2
19	01C45-0252	Metric bolt 10mm x 25mm (series 80)
	01C45-0256	Metric bolt 12mm x 25mm (series 100)
20	01C95-0009	Flange nut 1/4
21	02C36-0134	F.H.M.B 1/4 x 3/4
22	02C07-0018	Hex. nut 3/8
23	01C04-0109	Carr. Bolt 3/8 x 1
24	02C32-0013	Lock washer 7/16
25	02C32-0015	Lock washer 1/2
26	900496	Washer 7/16
27	02C32-0012	Lock washer 3/8
28	02C07-0018	Hex. nut 3/8
29	02C07-0020	Hex. nut 1/2
30	01C17-0112	Hex. bolt 3/8 x 3/4
31	02C22-0005	Washer 3/8



ID.1

IDLER

ITEM	PART NO.	DESCRIPTION
1	52-018	Idler shaft
2	52-019	Chain guide
3	52-020	Spacer
4	52-021	UHMW roller
5	52-022	Bearing bracket
6	UCF-208-24	Flange bearing
7	35-115	Idler bracket (right hand)
8	15-001	Threaded rod
9	99-306	Jam nut 1''
10	99-321	Nylon lock nut 1''
11	99-337	Washer 1 1/16
12	35-115	Idler bracket (left hand)
13	02C14-0148	Hex. nut 1/2''
14	02C32-0015	Lock washer 1/2''
15	01C07-0150	Carr. Bolt 1/2'' x 1 1/2''



SEC.1

SECTION

ITEM	PART NO.	DESCRIPTION
1	52-012	Conveyor section frame
2		Drive ass'y
3		Idler ass'y
4	52-014	Wear plate
5	52-015	Wear band
6	52-002	Wear plate
7	60-81X-ASS-46	10 foot section of chain
8	49-715	Paddle (one side)

ITEM	PART NO.	DESCRIPTION
9	01C04-0238	Bolt carr. 1/2 x 1 3/4
10	02C32-0014	Lock washer 1/2
11	02C07-0020	Hex. nut 1/2
12	99-268	Flat socket head 1/4 x 3/4
13	01C95-0009	Flange nut 1/4
14	01C17-0249	Bolt hex. 1/2 x 1 1/2
15	02C32-0014	Lock washer ½
16	02C07-0020	Hex. nut 1/2

NOTES:

230 BOUL. INDUSTRIEL
ST-GERMAIN, QUÉBEC
CANADA, J0C 1K0
TEL.: (819) 395-4282
FAX : (819) 395-2030
www.valmetal.com
info@valmetal.com

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